4-CH Video Decoder Card

PCI-5100

User's Manual

www.acti.com

1 PRECAUTIONS

1. **Read these instructions**
   All the safety and operating instructions should be read before the product is operated.
2. **Heed all warnings**
   All warnings on the product and in the instruction manual should be adhered to.

The symbol indicates the following items, please carefully read the description next to each symbol.

a. Failure to follow the safety instruction given may directly endanger people, cause damage to the system or to other equipment.
b. The requirements to make this device work, including hardware, computer settings, network settings, and operation procedures.
c. The tips to make using this device easier, more convenient and more efficient.

3. **Servicing**
   Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Copyright

This manual is the intellectual property of ACTi and is protected by copyright. All rights are reserved. No part of this document maybe reproduced or transmitted for any purpose by any means including electronic or mechanical without the official written permission from ACTi.

Trademarks

All names used in this manual for hardware and software are probably registered trademarks of respective companies.

Liability

Every care has been taken during writing this manual. Please inform your local office if you find any inaccuracies or omissions. We cannot be held responsible for any

typographical or technical errors and reserve the right to make changes to the product and manuals without prior notice.

FCC/CE Regulation

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution: To assure continued compliance, (example – use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment

CE: This device passed the test performed according to the European standard EN55022:1998 Class B, EN 61000-3-2:2000, EN61000-3-3"1995+A1:2001, EN55024:1998+A1:2001.

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2 INTRODUCTION

2.1 Package Contents

PCI-5100

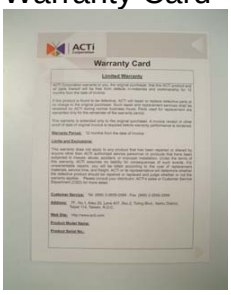
Software CD

This CD contains
a. Decoder Card manual
b. Driver

SCSI II cable

Screw

Warranty Card



2.2 Features and benefits

The video decoder card is a 4-channel PCI-based add-in card that provides high performance MPEG-4 decoding from a local HD, or a remote video products to analog video signals. This allows video devices such as TV system, analog monitors or existing analog video switches to be connected to our IP-base surveillance video system.

This video decoder card also provides digital video signals output via an ACTi proprietary cable connect to the ACTi's PCI-6100, the real-time dislay PCI-based add-in card. This saves lots of CPU loading for supporting a large system.

- **Up to full D1 MPEG-4 video decoding**

  The video decoder card can convert network MPEG-4 stream into analog video signals. It also can automatically detect the remote stream format, resolution and video standards. With ASIC based hardware decoder, this video decoder card is capable of decoding video at full frame rate (30/25 fps). The analog video resolution of more than 500 TV lines (depends on quality of video source)

- **Supports both regular TV system and digital-TV**

  The video decoder card supports composite video output. This feature allows analog video devices such as regular TV sets, analog monitors and existing analog video switches to be connected to our IP surveillance video system.

- **Digital Time Code Embedded**

  The "Digital Time Code Embedded" function is to embed the recording time in the MPEG bit stream. Therefore, each image frame has its respective time when it was recorded. It is very useful when users want to find the video at an exact time or between a certain time intervals.

- **Software Development Kit Support**

  The video decoder card can be integrated or controlled by user's application program through the Streaming Library or ActiveX control. With its high level programming interface, software developer's time and efforts to is highly reduced.

2.3 Safety instructions

- **Attachments**

  Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

- **Water and Moisture**

  Do not use this video product near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool and the like.

- **Don’t use accessories not recommended by the manufacturer**
- Only install this device and the power supply in a dry place protected from weather
- **Servicing**

  Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

- **Damage Requiring service**

  Remove this video decoder card from the system immediately and refer servicing to qualified service personnel under the following conditions.

  1. If liquid has been spilled, or objects have fallen into the video product.

  2. If the video product has been exposed to rain or water directly.

  3. If the video product does not operate normally by following the operating Instructions in this manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment . Other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.

- **Safety Check**

  Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

2.4 Minimum system requirements

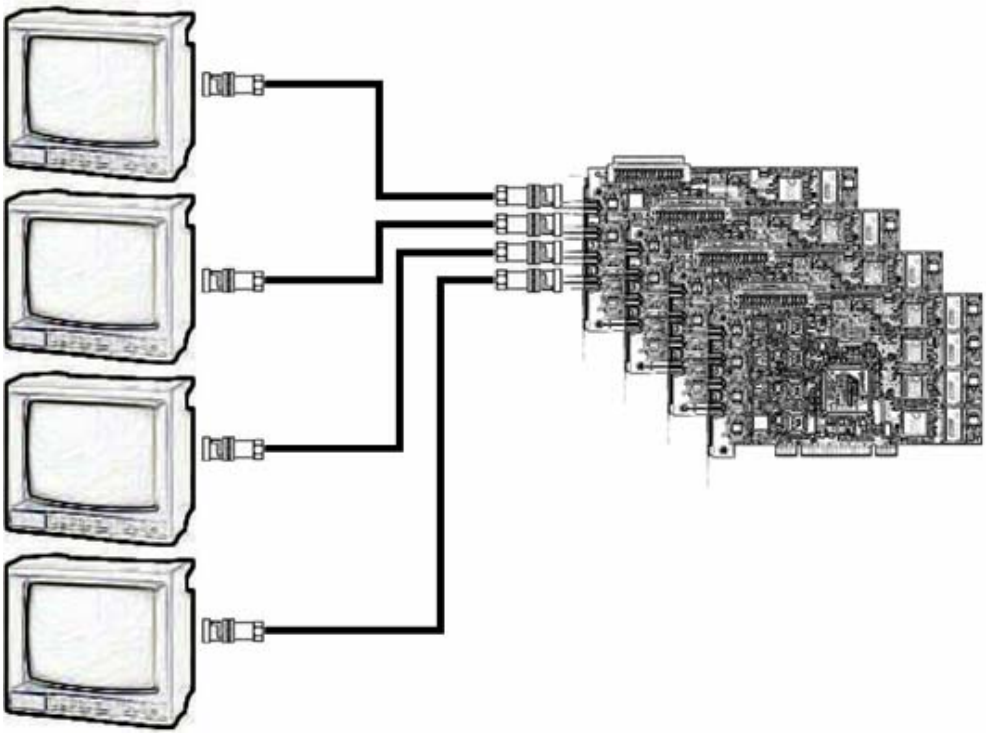
Mother Board	Intel Pentium 4 based ATX Form Factor Mother Board. Suggestion: with at least 5 PCI slots
CPU	Intel Pentium IV CPU with either FSB 533 MHz or FSB 800 MHz. Suggestion: with at least 2.8GHz/FSB 533 MHz
VGA Display	Either Integrated VGA or APG x4/x8 with at least 128MB memory
Memory	256 MB or above
Operating System	Windows XP SP2 / Windows 2003 / Windows 2000 with SP4 or above
Video Resolution	SVGA or XGA with 1024x768 resolution, 32-bit color
System Limitation	There shouldn't be any PCI To PCI Bridge, Pericom PI7C8150, in the system. Otherwise, PCI-5100 driver will confuse for finding the correct device.

3 INSTALLATION

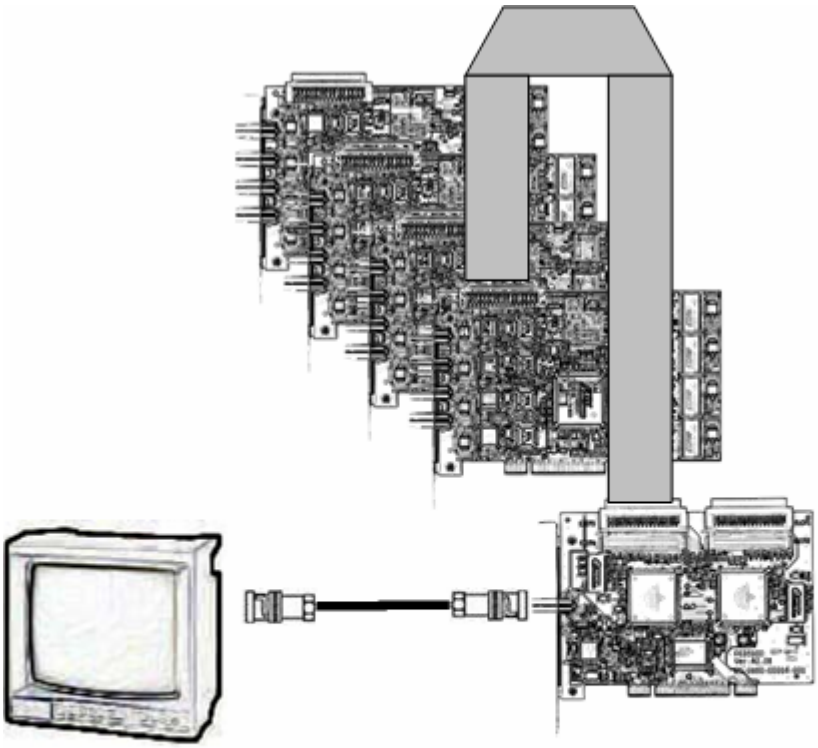
3.1 Basic Connections

Follow the procedures below to install the video decoder cards in your system.

Option 1 : Only PCI-5100 in the system



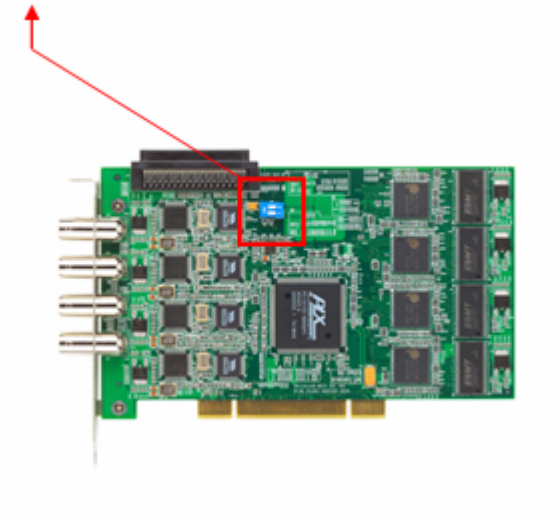
Option 2 : Both PCI-5100 & PCI-6100 in the system



3.2 Dip Switch Setting

Adjust dip switch for a correct card ID number setting. The card ID should be an unique ID in a system. Accoding to those card ID, our SDK can correctly identify channel number 1 ~ 16 (the maximum is 4 cards in one system, and there are 4 channels in each card) for application.

ID	ON	
1	Off	Off
2	Off	On
3	On	Off
4	On	On



3.3 Driver Installation

- **STEP1**

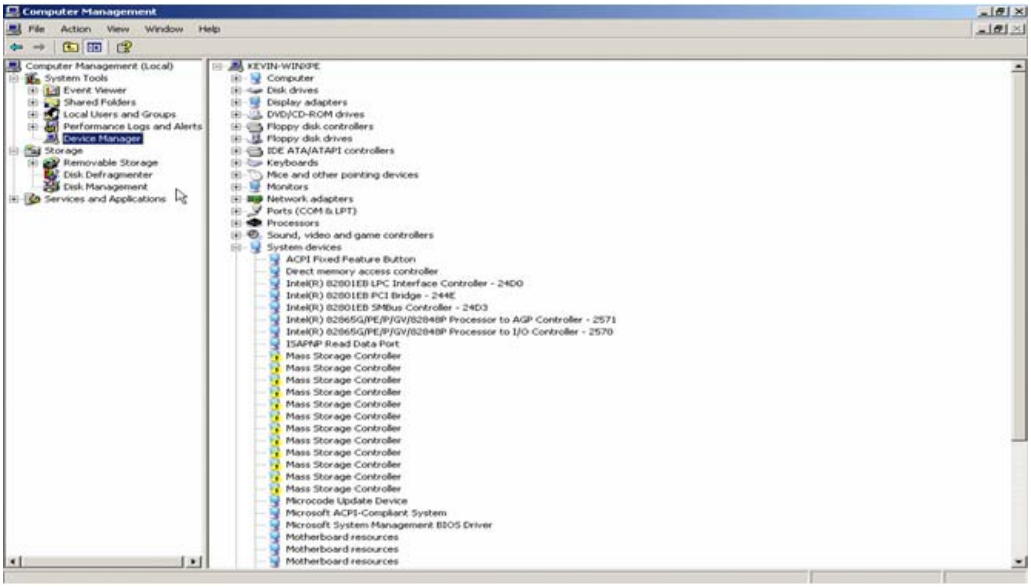
  Turn your PC off.

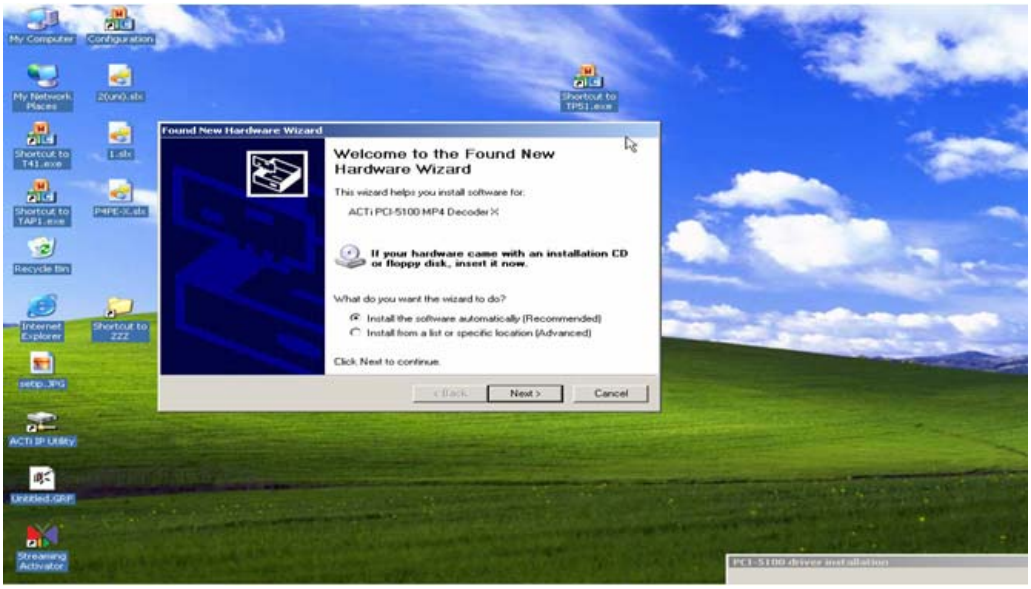
- **STEP2**

  Insert the PCI-5100 cards into an empty PCI slot.

- **STEP3**

  Turn your PC on and start Windows. Windows will automatically detect these new cards.



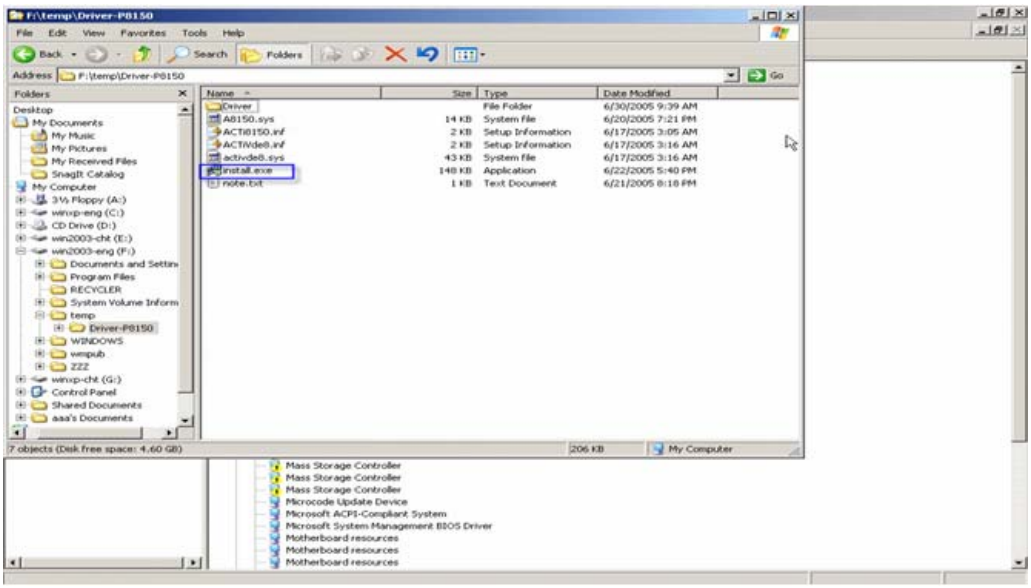

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
ACTi PCI-5100 MP4 Decoder X
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

- **STEP4**

  Insert Driver CD into CD-ROM drive.

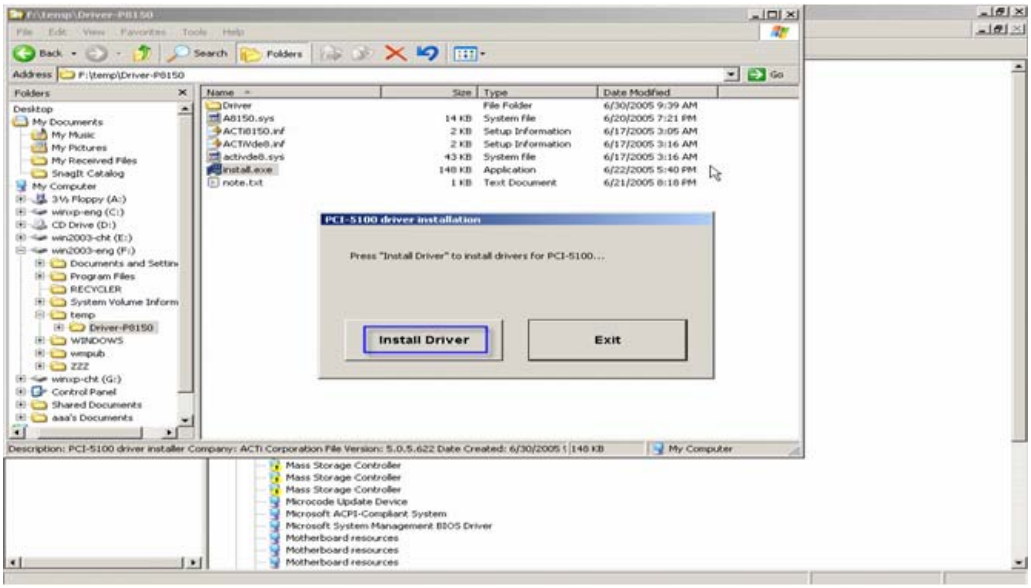
- **STEP5**

  Select the CD drive and find “install.exe”.



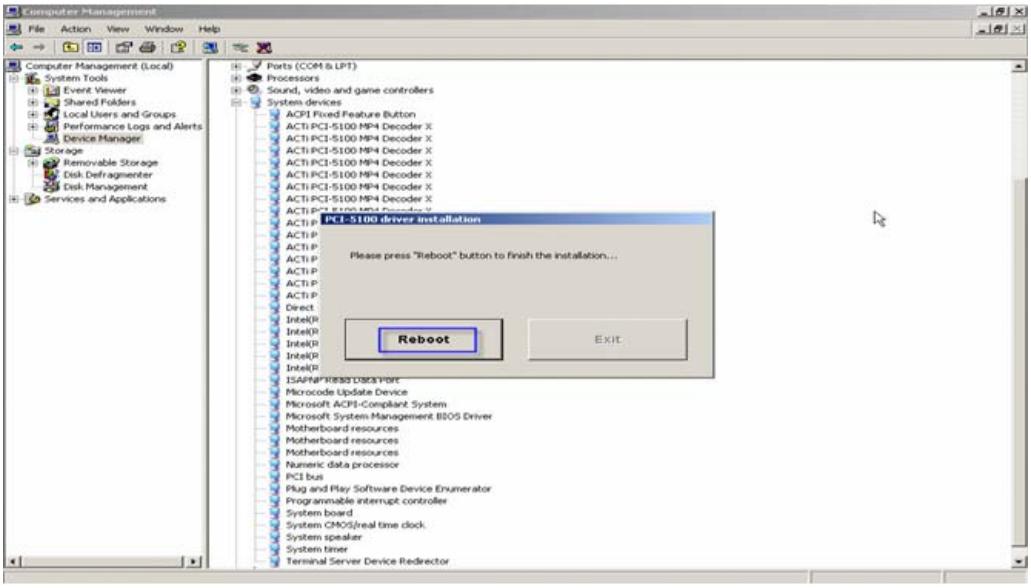
- **STEP6**

  Press the “Install Driver” button



- **STEP7**

  Press the “Reboot” button



- **STEP8**

  System will find those video decoder cards.